



ALD RURAL DISTRICT COUNCIL

---

# ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

(F. P. PEACH, M.B., Ch.B., D.P.H.)

WHICH INCLUDES THE ANNUAL REPORT OF THE

PUBLIC HEALTH INSPECTOR

(F. J. LEVESLEY, M.A.P.H.I.)

FOR THE YEAR

1967



CYNGOR DOSBARTH GWLEDIG ALED

# ADRODDIAD BLYNYDDOL

Y

SWYDDOG MEDDYGOL IECHYD

(FREDERICK P. PEACH, M.B., Ch.B., D.P.H.)

YN CYNNWYS HEFYD

# ADRODDIAD BLYNYDDOL

YR

AROLYGYDD IECHYD

(F. J. LEVESLEY, M.A.P.H.I.)

AM Y FLWYDDYN

1967

---

RHYL:

W. N. Douglas & Co., Ltd., 31 Sussex Street.



# GENERAL PURPOSES COMMITTEE

## Chairman:

Councillor John Jones, J.P.

## Vice-Chairman:

Councillor W. E. Davies, C.C.

## Abergele Rural:

Councillors Shadrach Davies, D. Howell Roberts, T. E. Owen.

## Betws-yn-Rhos:

Councillors W. Ellis Davies, C.C., O. Wyn Roberts.

## Bylchau:

Councillors John E. Edwards, Mrs. A. C. Hughes.

## Cefn:

Councillor O. J. Rees.

## Llanelian:

Councillor John Jones, J.P.

## Llanfairtalhaiarn:

Alderman Watkin Lloyd, M.B.E., J.P., C.C.,  
Councillors Wm. Jones, John Jones.

## Llansannan:

Alderman Robert Roberts, C.C., Councillors D. Mars-Jones,  
E. J. Lloyd Williams, Gwilym Davies.

## Llanefydd:

Councillors Thomas Williams, C.C., D. J. Roberts.

## Glan Conway:

Councillors Miss J. Hughes, Mrs. E. Jenkins, C.C.,  
H. E. McKean, J.P., Dewi A. Evans.

## Trefnant:

Councillors Mark H. Burrill, R. George Williams.

**IMPROVEMENT GRANT AND HOUSING SUB-COMMITTEE.**

Councillors Miss J. Hughes, O. J. Rees, John Jones (Llan-fairtalhaiarn), Mrs. E. Jenkins, John E. Edwards, R. George Williams, D. J. Roberts, O. Wyn Roberts, Mrs. A. C. Hughes, E. J. Lloyd Williams.

---

**PUBLIC HEALTH DEPARTMENT.**

Medical Officer of Health:

F. P. Peach, M.B., Ch.B., D.P.H.

Public Health Inspector: F. J. Levesley.

Clerk: R. W. Davies.

## ALD RURAL DISTRICT COUNCIL

---

THE CIVIC CENTRE,  
COLWYN BAY.

To the Chairman and Members  
of the Aled Rural District Council.

Mr. Chairman, Ladies and Gentlemen,

I have pleasure in presenting to you my Annual Report on the health of the district for 1967.

The Registrar-General's estimated population for the mid-year 1967 is 6,620. This indicates an actual decrease in the population of 40, compared with the estimate for the mid-year 1966. The total live births for the area during 1967 was 72, giving a corrected birth rate of 12.75. This is a decrease compared with the previous year, when the total births equalled 82, giving a birth rate of 14.39. The number of deaths occurring during 1967 were 70, giving a corrected death rate of 10.6. This is an increase compared with 1966, when there were 64 deaths recorded, producing a death rate of 9.69. Therefore for the year 1967 there was a natural increase of the population of 2. The number of births occurring in the area has been steadily falling during the past eight years. The infant mortality rate for 1967 is 27.7 per 1,000 live births, and this represents 2 infant deaths. Only 2 illegitimate births were accounted to the district during 1967, compared with 9 during 1966.

On the whole, the health of the district has been maintained at a satisfactory level. There has been no serious incidence of infectious disease, and of the 69 infectious diseases notified during the year 62 were in respect of Measles, and it is hoped that with the introduction of a prophylactic vaccination against this disease during the late summer of 1968, it will be possible to eliminate the disease completely from this country in due course of time. One case of tuberculosis was notified during the year and, due to modern methods of treatment and improved social conditions, the mortality from this disease is now relatively low. Notification is declining at a slower rate, especially amongst males.

In my last report I referred to the presence of an unacceptable amount of lead detected in the mains water supply to certain properties in Glan Conway. During the year this was the subject of discussions between the officers of the Health Department and the officials of the Conway Valley Water Board, and during the last part of the year a joint meeting between the officials of the Health Department, Water Board and Welsh Office was held at Cardiff. Following this, certain measures were initiated by the Water Board to reduce the plumbo-solvency of the water and this has led to a significant improvement in the purity of the mains water supplied to the district. Nevertheless, a system of periodic sampling has been initiated by the Public Health Inspector and a close watch will be continued to be kept on the lead content of the water.

Certain private water supplies in the district also still give cause for regular surveillance from the officers of the Health Department in respect of their bacteriological acceptance. I am glad to note that there is a growing awareness amongst consumers of such water supplies for them to take all possible steps to prevent pollution from domestic sources. I would particularly refer to the necessity of erecting and maintaining adequate fencing to guard against pollution by cattle and the fitting, where indicated, of an approved domestic water filtration device.

Throughout the year the Health Department is concerned with numerous personal problems affecting the individual residents of the district and I must express my appreciation of the help and sympathetic understanding I have always received from the members and officials of the Council in helping to resolve, or at the least reduce, the social discomfort experienced by the individual or families, particularly in respect of where I have found it necessary to make recommendations for rehousing of individuals or families on medical social grounds.

I express my thanks to you, Mr. Chairman, and members of the Committee for their guidance and help during the year and to my fellow officials, particularly to Mr. Levesley, for his service and loyalty to myself and the community whom he serves.

Yours sincerely,

F. P. PEACH,

Medical Officer of Health.



## ALD RURAL DISTRICT

### VITAL STATISTICS.

|  |          |
|--|----------|
| Area in Acres ... ..                               | 62,206   |
| Population:—                                       |          |
| (a) Census 1961 ... ..                             | 6,519    |
| (b) Registrar-General's Estimate (mid-1967) ... .. | 6,620    |
| Number of Inhabited Houses ... ..                  | 2,416    |
| Rateable Value ... ..                              | £170,163 |
| Sum represented by a Penny Rate ... ..             | £637/5/9 |

### LIVE BIRTHS.

|                     | Male |     | Female |     | Total |
|---------------------|------|-----|--------|-----|-------|
| Total ... ..        | 37   | ... | 35     | ... | 72    |
| Legitimate ... ..   | 36   | ... | 34     | ... | 70    |
| Illegitimate ... .. | 1    | ... | 1      | ... | 2     |

Comparability Factor for Births: 1.17.

Birth Rate per 1,000 population:—

|  |       |
|--|-------|
| (a) Crude ... ..   | 10.9  |
| (b) Corrected ... ..                                       | 12.75 |
| Ratio of local adjusted birth rate to national rate ... .. | 0.74  |
| Illegitimate Birth Rate of total live births ... ..        | 2.7   |

### STILL BIRTHS.

|  |      |
|--|------|
| 1 Male (Legitimate), 3 Females (Legitimate) ... ..                   | 4    |
| Still-birth rate per 1,000 total still-births and live births ... .. | 52.6 |

### INFANT DEATHS.

2

### INFANT MORTALITY.

|  |      |
|--|------|
| (a) Total Infant deaths per 1,000 live births ... ..       | 27.7 |
| (b) Legitimate Infant deaths over 1,000 live births ... .. | 28.5 |

### NEO-NATAL MORTALITY RATE.

|   |      |
|---|------|
| Deaths under 4 weeks per 1,000 live births ... .. | 27.7 |
|---|------|

### EARLY NEO-NATAL MORTALITY RATE.

|  |      |
|--|------|
| Deaths under 1 week per 1,000 live births ... .. | 78.9 |
|--|------|

### PERI-NATAL MORTALITY RATE.

|  |      |
|--|------|
| Still-births and deaths under 1 week combined per 1,000 live and still-births ... .. | 27.7 |
|--|------|

### MATERNAL MORTALITY.

Nil.

## DEATHS.

|  | Male | Female | Total |
|--|------|--------|-------|
| Deaths ... ..  | 51   | 19     | 70    |
| Mortality rate (deaths per 1,000 population):—             |      |        |       |
| (a) Crude ... ..   |      |        | 10.6  |
| (b) Corrected ... ..                                       |      |        | 10.6  |
| Ratio of local adjusted death rate to national rate ... .. |      |        | 0.95  |
| Comparability Factor for Deaths ... ..                     |      |        | 1.00  |

The following table shows the chief vital statistics for the past eight years:—

|                              | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966  | 1967  |
|------------------------------|------|------|------|------|------|------|-------|-------|
| Population ... ..            | 6880 | 6580 | 6910 | 6890 | 6690 | 6700 | 6560  | 6629  |
| Live Births ... ..           | 102  | 101  | 90   | 93   | 91   | 95   | 82    | 72    |
| Birth Rate ... ..            | 14.9 | 15.3 | 14.5 | 15.8 | 13.6 | 14.2 | 14.39 | 12.75 |
| Still-births ... ..          | 0    | 2    | 2    | 1    | 2    | 1    | 1     | 4     |
| Still-birth Rate...          | 0    | 19.8 | 21.7 | 10.6 | 21.5 | 10.4 | 12.04 | 52.6  |
| Deaths... ..                 | 57   | 64   | 67   | 64   | 67   | 51   | 64    | 70    |
| Death Rate ... ..            | 9.8  | 9.7  | 10.5 | 9.29 | 10.0 | 7.4  | 9.69  | 10.6  |
| Infant Deaths                | 1    | 2    | 2    | 0    | 3    | 0    | 0     | 2     |
| Infant Mortality Rate ... .. | 9.8  | 19.7 | 22   | 0    | 32.9 | 0    | 0     | 27.7  |

Of the 70 deaths registered during 1967, the greatest single cause was due to disease of the coronary arteries, which accounted for 21 deaths. In all, 37 deaths were due to diseases of the heart and circulatory system. Of the 19 deaths due to malignant conditions, 7 were due to carcinoma of the stomach. This is an unusually high incidence compared with previous years.

The following table shows all causes of death at different periods of life during 1967:—

| Cause of Death.                                       | Sex. | Total—<br>All Ages | Under 4<br>weeks | 4 weeks and<br>under 1 year | Ages   |         |          |          |          |          |          |          |                      |   |
|---|------|--------------------|------------------|-----------------------------|--------|---------|----------|----------|----------|----------|----------|----------|----------------------|---|
|   |      |                    |                  |                             | 1 year | 5 years | 15 years | 25 years | 35 years | 45 years | 55 years | 65 years | 75 years<br>and over |   |
| 10. Malignant Neoplasm, Stomach ... ..                | M    | 7                  | —                | —                           | —      | —       | —        | —        | —        | —        | 1        | 1        | 2                    | 3 |
|   | F    | —                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
| 11. Malignant Neoplasm, Lung, Bronchus ...            | M    | 1                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | 1        | —                    | — |
|   | F    | —                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
| 12. Malignant Neoplasm, Breast ... ..                 | M    | —                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
|   | F    | 2                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | 2                    | — |
| 14. Other Malignant & Lymphatic Neo-<br>plasms ... .. | M    | 5                  | —                | —                           | —      | —       | —        | —        | —        | —        | 1        | 1        | 1                    | 2 |
|   | F    | 4                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | 1        | —                    | 3 |
| 17. Vascular Lesions of Nervous System ... ..         | M    | 9                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | 3                    | 6 |
|   | F    | 3                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | 1                    | 2 |
| 18. Coronary disease, Angina ... ..                   | M    | 18                 | —                | —                           | —      | —       | —        | —        | —        | 1        | 1        | 3        | 6                    | 7 |
|   | F    | 3                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | 1        | —                    | 2 |
| 20. Other heart disease ... ..                        | M    | 3                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | 1                    | 2 |
|   | F    | 1                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | 1 |
| 23. Pneumonia ... ..                                  | M    | 1                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | 1 |
|   | F    | —                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
| 24. Bronchitis ... ..                                 | M    | 4                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
|   | F    | —                  | —                | —                           | —      | —       | —        | —        | —        | 1        | —        | —        | 3                    | — |
| 25. Other diseases of respiratory system ... ..       | M    | —                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
|   | F    | 2                  | —                | —                           | —      | —       | —        | 1        | —        | —        | —        | —        | —                    | 1 |

| Cause of Death.                                | Sex. | Total—<br>All Ages | Under 4<br>weeks | 4 weeks and<br>under 1 year | Ages   |         |          |          |          |          |          |          |                      |   |
|--|------|--------------------|------------------|-----------------------------|--------|---------|----------|----------|----------|----------|----------|----------|----------------------|---|
|  |      |                    |                  |                             | 1 year | 5 years | 15 years | 25 years | 35 years | 45 years | 55 years | 65 years | 75 years<br>and over |   |
| 28. Nephritis and Nephrosis ... ..             | M    | —                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
|  | F    | 1                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | 1 |
| 32. Other Defined and Ill-defined Diseases ... | M    | 2                  | 2                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
|  | F    | 3                  | —                | —                           | —      | —       | —        | —        | —        | —        | 1        | 1        | —                    | — |
| 35. Suicide ... ..                             | M    | 1                  | —                | —                           | —      | —       | —        | —        | —        | 1        | —        | —        | —                    | — |
|  | F    | —                  | —                | —                           | —      | —       | —        | —        | —        | —        | —        | —        | —                    | — |
| Total—All Causes ... ..                        | M    | 51                 | 2                | —                           | —      | —       | —        | —        | 1        | 5        | 6        | 16       | 21                   |   |
|  | F    | 19                 | —                | —                           | —      | 1       | —        | —        | —        | —        | 3        | 4        | 11                   |   |
| Combined Total ... ..                          |      | 70                 |                  |                             |        |         |          |          |          |          |          |          |                      |   |

The areas in which deaths occurred were as follows:—

| District                    | Male | Female | Total |
|-----------------------------|------|--------|-------|
| Abergele Rural ... ..       | —    | 2      | 2     |
| Allt Goch, St. Asaph ... .. | 1    | —      | 1     |
| Betws-yn-Rhos ... ..        | 1    | —      | 1     |
| Bylchau ... ..              | 2    | —      | 2     |
| Cefn Meiriadog ... ..       | 2    | —      | 2     |
| Dolwen ... ..               | 1    | —      | 1     |
| Dolydd ... ..               | —    | 1      | 1     |
| Glan Conway ... ..          | 11   | 7      | 18    |
| Glascoed ... ..             | 1    | —      | 1     |
| Groes ... ..                | 2    | —      | 2     |
| Llanellwyr ... ..           | 1    | —      | 1     |
| Llanfair T.H. ... ..        | 12   | 5      | 17    |
| Llanfelfydd ... ..          | 2    | 2      | 4     |
| Llansamman ... ..           | 3    | 3      | 6     |
| Trefnant ... ..             | 3    | 3      | 6     |
|                             | 42   | 21     | 63    |

## GENERAL PROVISION OF HEALTH SERVICES IN THE AREA.

### (1) Laboratory Services.

The Public Health Laboratory Service is a service designed to assist all concerned in the diagnosis, prevention and control of infection. Over fifty Laboratories are located throughout England and Wales. The Laboratory which serves West Denbighshire is situated at Bryn Hyfryd, Conway.

The routine specimens examined fall under two main headings: (a) Medical specimens, and (b) Sanitary specimens.

The medical specimens are submitted for diagnosis and prevention of bacterial and viral infections. Sanitary specimens include the bacteriological examination of water, milk, ice cream, egg products and fresh fish, etc.

In addition, the work of the service includes not only the investigation of outbreaks of infectious disease, but also the study and distribution and behaviour of various infectious agents.

During the year, samples of water, milk, ice cream and cream were submitted for bacteriological examination, and I am indebted to Dr. Kingsley Smith, the Director of the Conway Laboratory, for his ready assistance and valuable advice and co-operation to me.

### **Prophylactic and Therapeutic Agents:**

German Measles: Gamma Globulin obtainable from the Public Health Laboratory, Bryn Hyfryd Conway (Tel. Conway 2478).

Typhus vaccine, rabies vaccine and anthrax vaccine, for prophylactic use only, held at the Public Health Laboratory, 126 Mount Pleasant, Liverpool, 3 (Tel. Royal 3636).

Anthrax vaccine for therapeutic use is held at the Public Health Laboratory, Liverpool.

Anthrax anti-serum is held at the C. & A. Hospital, Bangor (Tel. Bangor 3321), and the Maelor General Hospital, Wrexham (Tel. Wrexham 3512).

Snake anti-venom and also Botulinum anti-serum are held at the C. & A. Hospital, Bangor, and the Maelor General Hospital, Wrexham.

Anti-vaccine for tropical snakes is held only at the Dispensary, Royal South Hants. and Southampton Hospital, Southampton (Tel. Southampton 26211): 24-hour service.

Anti-yellow fever vaccine is obtainable at the Regional Blood Transfusion Centre, Halton Gardens, Liverpool (Tel. Central 8433) and inoculations are given by appointment only.

Anti-cholera, anti-tetanus and whooping cough vaccine must be obtained through the usual trade channels.

Smallpox vaccine lymph is obtainable from the Health Department, Civic Centre, Colwyn Bay (Tel. 55271).

### **Pathological and Biochemical:**

Doctors may send specimens likely to help in the diagnosis and treatment of diseases to the Royal Alexandra Hospital, Rhyl. I do not normally receive information concerning such specimens unless the result is related to a public health or community health problem, in which case I receive the full co-operation of the Hospital Pathologist and the General Practitioner concerned with the case.

### **CLINICS.**

#### **(a) At Colwyn Bay Clinic, Nant-y-Glyn Road:**

Monday—Family Planning: This is provided by a voluntary committee, but meets in the Clinic premises and co-ordinates its work with other work of the Health Department.

Tuesday—Child Welfare Clinic: Every week at 2 p.m.

Thursday—Orthopaedic Clinic at 10 a.m.. Specialist's Clinics quarterly. Family Planning Clinic: Every week from 7—8 p.m.

Saturday—Ophthalmic Clinic for schoolchildren, by appointment.

**(b) At Llysfaen Church House:**

Monday—Child Welfare Clinic: First and third Monday each month from 2—4 p.m.

**(c) At Mochdre Village Hall:**

Monday—Child Welfare Clinic: Second and fourth Monday each month from 2—4 p.m.

**(d) At Glan Conway Church House:**

Monday—Child Welfare Clinic: Second and fourth Monday each month from 2—4 p.m.

**(e) At Llanddulas (Beulah Schoolroom):**

Monday—Child Welfare Clinic: First Monday each month at 2 p.m.

**(f) At Rhos-on-Sea (Church House, Elwy Road):**

Tuesday—Child Welfare Clinic: Second and fourth Tuesday each month from 10.30—12 noon.

**(g) At Llansannan:**

Thursday—Child Welfare Clinic: Second Thursday each month at 2 p.m.

**(h) At Abergele (Pentre Mawr):**

Thursday—Child Welfare Clinic: Every Thursday at 2 p.m.

**(i) At Denbigh (Middle Lane Clinic):**

Wednesday—Child Welfare Clinic at 10 a.m. and 1 p.m.  
Orthopaedic Clinic at 10 a.m. on first and third Wednesday.

### DAY NURSERY.

There is no day nursery in the area.

## PROTECTION AGAINST INFECTION.

### Smallpox Vaccination:

During the year, 46 persons received primary vaccination against smallpox, compared with 43 during the previous year. Only one person received re-vaccination.

### Triple Antigen (Whooping Cough, Diphtheria and Tetanus,

Forty-six children were given a primary course of triple antigen during the year, whilst 36 children received booster doses. These figures indicate that the acceptance rate for this agent has been maintained compared with previous years.

### Poliomyelitis:

Seventy-one persons received a primary course of poliomyelitis vaccine during 1967, whilst 44 persons received booster doses of this agent. This is an increase compared with the previous year, when 59 persons received a primary course, whilst 40 persons received booster doses.

## INCIDENCE OF INFECTIOUS DISEASE.

The following table shows the incidence of infectious diseases in the area during 1967:—

| Diseases.             | At all ages | Under 1 year | 1 and under 5 | 5 and under 25 | 25 and under 45 | 45 and under 65 | 65 and over |
|-----------------------|-------------|--------------|---------------|----------------|-----------------|-----------------|-------------|
| Measles ... ..        | 62          | 4            | 31            | 26             | —               | 1               | —           |
| Whooping Cough ... .. | 6           | —            | 2             | 4              | —               | —               | —           |
| Tuberculosis ... ..   | 1           | —            | —             | 1              | —               | —               | —           |
| Totals ... ..         | 69          | 4            | 33            | 31             | —               | 1               | —           |

The state of the Tuberculosis Register during the past year is shown hereunder:—

| On Register 1/1/67 |    | On Register 30/12/67 |    |
|--------------------|----|----------------------|----|
| Pulmonary—         |    | Pulmonary—           |    |
| Male ... ..        | 8  | Male ... ..          | 8  |
| Female ... ..      | 4  | Female ... ..        | 4  |
| Non-Pulmonary      |    | Non-Pulmonary        |    |
| Male ... ..        | 2  | Male ... ..          | 2  |
| Female ... ..      | 3  | Female ... ..        | 2  |
|                    | 17 |                      | 16 |
|                    | —  |                      | —  |



**PRIVATE WATER SUPPLIES.**

Seventy-eight supplies were inspected during the year and twenty-eight supplies sampled for Bacteriological Analysis.

A great deal of the department's work in this connection is done behind the scenes, however, it is gratifying to report that there is an awareness amongst consumers of private water supplies of the urgent necessity to regularly maintain and inspect their sources of supply.

## BACTERIOLOGICAL EXAMINATION OF PUBLIC WATER SUPPLIES

| Date Sampled and<br>Name of Supply | 1  |             | 2  | 3   | 4                     |
|------------------------------------|--|-------------|--|---|-----------------------|
|                                    | Plate Count<br>Yeastrel<br>Agar 24 hrs.<br>37°C. | Aerobically | Prob. No.<br>of Coliform<br>Bacilli<br>MacConkey<br>2 days 37°C. | Prob. No.<br>of<br>Bact. Coli<br>(Type 1) | Remarks               |
| <b>Llyn Conway Supply:</b>         |  |             |  |   |                       |
| 16/ 3/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 28/ 3/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 13/ 6/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 11/ 7-67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 13/ 7/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 19/ 9/67 ... ..                    | —  | ...         | 6  | 0   | Cl. 3 Unsatisfactory. |
| 28/ 9/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 31/10/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 16/11/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| <b>Trefnant Main:</b>              |  |             |  |   |                       |
| 1/ 2/67 ... ..                     | 0  | ...         | 0  | 0   | Satisfactory.         |
| 28/ 3/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 23/ 5/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 23/ 5/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 19/ 9/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 31/10/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 16/11/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| <b>Llyn Cowlyd Supply:</b>         |  |             |  |   |                       |
| 16/ 3/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 23/10/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| <b>Llyn Bran Supply:</b>           |  |             |  |   |                       |
| 17/ 1/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |
| 17/ 1/67 ... ..                    | 0  | ...         | 0  | 0   | Satisfactory.         |

| Date Sampled and<br>Name of Supply | 1            |          | 2         |               | 3         |               | 4<br>Remarks           |
|------------------------------------|--------------|----------|-----------|---------------|-----------|---------------|------------------------|
|                                    | Plate Count  | Yeastrel | Prob. No. | of Coliform   | Prob. No. | of Bact. Coli |                        |
|                                    | Agar 24 hrs. | 37° C.   | MacConkey | 2 days 37° C. | (Type 1)  |               |                        |
|                                    | Aerobically  |          |           |               |           |               |                        |
| 16/ 2/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 16/ 2/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 16/ 3/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 18/ 4/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 18/ 4/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 24/ 5/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 16/ 5/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 19/ 9/67                           | ...          | 0        | ...       | 1             | ...       | 1             | Cl. 4. Unsatisfactory  |
| 26/ 9/67                           | ...          | 0        | ...       | 3             | ...       | 0             | Cl. 3. Unsatisfactory. |
| 28/ 9/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 28/ 9/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 28/ 9/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 5/10/67                            | ...          | 0        | ...       | 1             | ...       | 1             | Cl. 4. Unsatisfactory  |
| 5/10/67                            | ...          | 0        | ...       | 3             | ...       | 3             | Cl. 4. Unsatisfactory  |
| 12/10/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 12/10/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory           |
| 12/10/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 12/10/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 16/10/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 16/10/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 12/10/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 16/11/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 28/11/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| 28/11/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |
| Llannerch Swimming Bath:           |              |          |           |               |           |               |                        |
| 13/ 6/67                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory           |
| 16/ 8/68                           | ...          | 0        | ...       | 0             | ...       | 0             | Satisfactory.          |

I am grateful to Mr. J. M. Campbell, Engineer and Manager of the Conway Valley Water Board, for the following table which shows the record of rainfall at Lake Cowlyd and the consumption of water within the Aled Rural District for the year 1967:—

#### RAINFALL.

| Month            | Inches | No. of days with<br>0.01in. or more |
|------------------|--------|-------------------------------------|
| January ... ..   | 7.12   | 18                                  |
| February ... ..  | 12.26  | 13                                  |
| March ... ..     | 7.18   | 13                                  |
| April ... ..     | 3.50   | 13                                  |
| May ... ..       | 10.40  | 24                                  |
| June ... ..      | 3.05   | 8                                   |
| July ... ..      | 5.30   | 8                                   |
| August ... ..    | 7.81   | 14                                  |
| September ... .. | 10.93  | 15                                  |
| October ... ..   | 26.00  | 25                                  |
| November ... ..  | 8.76   | 13                                  |
| December ... ..  | 9.05   | 18                                  |
| Total ... ..     | 111.36 | 182                                 |

#### CONSUMPTION.

|                  |            |
|------------------|------------|
| January ... ..   | 2,666,000  |
| February ... ..  | 2,744,000  |
| March ... ..     | 2,263,000  |
| April ... ..     | 2,340,000  |
| May ... ..       | 2,356,000  |
| June ... ..      | 2,370,000  |
| July ... ..      | 2,976,000  |
| August ... ..    | 2,356,000  |
| September ... .. | 2,430,000  |
| October ... ..   | 2,511,000  |
| November ... ..  | 2,580,000  |
| December ... ..  | 2,635,000  |
| Total ... ..     | 30,227,000 |

(Signed) J. M. CAMPBELL,

Engineer and Manager.

### FOOD AND DRUGS.

I am indebted to Mr. D. Hugh Owens, Chief Inspector for the County of Denbigh, for the following information:—

**Particulars of samples taken under the Food and Drugs Act, in  
ALED RURAL DISTRICT during the year ended 31st December, 1967.**

| Article                | No. taken | Genuine | Not Genuine, or<br>Sub-standard |
|------------------------|-----------|---------|---------------------------------|
| Milk ... ..            | 14        | 13      | 1                               |
| Margarine ... ..       | 1         | 1       | —                               |
| Cheese ... ..          | 1         | —       | 1                               |
| Soup ... ..            | 1         | 1       | —                               |
| Evaporated Milk ... .. | 1         | 1       | —                               |
| Coffee ... ..          | 1         | 1       | —                               |
| Whiskey ... ..         | 1         | 1       | —                               |
| Cough Mixture ... ..   | 1         | 1       | —                               |
| Totals ... ..          | 21        | 19      | 2                               |

The one sample of milk shown in the Table as “not genuine” concerned a follow-up sample taken at a farm which, on analysis, was found to be below the standard for fat. The necessary steps were taken to assist the producer to overcome this deficiency. The sample of cheese shown as “not genuine” was incorrect because it was not labelled to comply with the new regulations. This matter has now been put right. All other samples were found to be of good quality and free from all prohibited preservatives, colouring matter and, in the case of farm-bottled milk, antibiotics.

In addition to the milk samples analysed by the Public Analyst, a further 18 samples of milk taken from schools, etc., were tested in the Colwyn Bay Office by the Inspectors. The results were satisfactory in each instance.

(Signed) D. HUGH OWENS,

17 Vicarage Hill,  
Wrexham.  
19th April, 1968.

Chief Inspector,  
County of Denbigh.

### AMBULANCE SERVICE.

The Ambulance Service is administered by the Denbighshire County Council under the provisions of Part III. of the National Health Service Act, 1948. The Ambulance Control is situated at Colwyn Bay and the day to day administration of this service is the responsibility of your Medical Officer of Health.

Nineteen ambulances are under my control, operating in West Denbighshire, the service during the day being operated by a staff of full-time drivers and attendants, whilst at night, weekends and during Bank Holidays the service is manned and operated by the Colwyn Bay and Abergele Voluntary Ambulance Corps.

## MILK SAMPLES.

Number of visits and inspections ... .. 164  
 Samples:—

Bacteriological ... .. 94  
 Biological ... .. 48

Of the 48 biological, three were found to have positive Brucella infection.

## MILK SAMPLES (Bacteriological).

| Date           | Untreated<br>Satis-<br>factory | Farm Milk<br>Unsatis-<br>factory | Pasteurised Milk<br>Satis-<br>factory | Unsatis-<br>factory |
|----------------|--------------------------------|----------------------------------|---------------------------------------|---------------------|
| 4/ 1/67... ..  | —                              | ...                              | 1                                     | —                   |
| 4/ 1/67... ..  | —                              | ...                              | 1                                     | —                   |
| 4/ 1/67... ..  | 1                              | ...                              | —                                     | —                   |
| 4/ 1/67... ..  | 1                              | ...                              | —                                     | —                   |
| 4/ 1/67... ..  | 1                              | ...                              | —                                     | —                   |
| 4/ 1/67... ..  | 1                              | ...                              | —                                     | —                   |
| 4/ 1/67... ..  | 1                              | ...                              | —                                     | —                   |
| 10/ 1/67... .. | 1                              | ...                              | —                                     | —                   |
| 10/ 1/67... .. | 1                              | ...                              | —                                     | —                   |
| 10/ 1/67... .. | 1                              | ...                              | —                                     | —                   |
| 17/ 1/67... .. | —                              | ...                              | 1                                     | —                   |
| 17/ 1/67... .. | —                              | ...                              | 1                                     | —                   |
| 17/ 1/67... .. | —                              | ...                              | 1                                     | —                   |
| 24/ 1/67... .. | —                              | ...                              | 1                                     | —                   |
| 1/ 2/67... ..  | 1                              | ...                              | —                                     | —                   |
| 1/ 2/67... ..  | 1                              | ...                              | —                                     | —                   |
| 1/ 2/67... ..  | —                              | ...                              | 1                                     | —                   |
| 6/ 2/67... ..  | —                              | 1                                | —                                     | —                   |
| 14/ 2/67... .. | —                              | ...                              | 1                                     | —                   |
| 14/ 2/67... .. | —                              | ...                              | 1                                     | —                   |
| 22/ 2/67... .. | 1                              | ...                              | —                                     | —                   |
| 22/ 2/67... .. | —                              | ...                              | 1                                     | —                   |
| 22/ 2/67... .. | 1                              | ...                              | —                                     | —                   |
| 28/ 2/67... .. | —                              | 1                                | —                                     | —                   |
| 28/ 2/67... .. | 1                              | ...                              | —                                     | —                   |
| 28/ 2/67... .. | —                              | 1                                | —                                     | —                   |
| 9/ 3/67... ..  | —                              | ...                              | 1                                     | —                   |
| 21/ 3/67... .. | 1                              | ...                              | —                                     | —                   |
| 21/ 3/67... .. | 1                              | ...                              | —                                     | —                   |
| 21/ 3/67... .. | 1                              | ...                              | —                                     | —                   |
| 21/ 3/67... .. | 1                              | ...                              | —                                     | —                   |
| 5/ 4/67... ..  | 1                              | ...                              | —                                     | —                   |
| 5/ 4/67... ..  | 1                              | ...                              | —                                     | —                   |
| 18/ 4/67... .. | 1                              | ...                              | —                                     | —                   |
| 25/ 4/67... .. | 1                              | ...                              | —                                     | —                   |
| 25/ 4/67... .. | 1                              | ...                              | —                                     | —                   |
| 25/ 4/67... .. | 1                              | ...                              | —                                     | —                   |
| 2/ 5/67... ..  | 1                              | ...                              | —                                     | —                   |
| 3/ 5/67... ..  | —                              | ...                              | 1                                     | —                   |
| 3/ 5/67... ..  | —                              | ...                              | 1                                     | —                   |
| 3/ 5/67... ..  | 1                              | ...                              | —                                     | —                   |
| 3/ 5/67... ..  | 1                              | ...                              | —                                     | —                   |
| 3/ 5/67... ..  | —                              | ...                              | 1                                     | —                   |
| 23/ 5/67... .. | 1                              | ...                              | —                                     | —                   |

| Date        | Untreated<br>Satis-<br>factory | Farm Milk<br>Unsatis-<br>factory | Pasteurised Milk<br>Satis-<br>factory | Unsatis-<br>factory |
|-------------|--------------------------------|----------------------------------|---------------------------------------|---------------------|
| 16/ 5/67... | 1                              | ...                              | —                                     | ...                 |
| 16/ 5/67... | 1                              | ...                              | —                                     | ...                 |
| 23/ 5/67... | —                              | ...                              | 1                                     | ...                 |
| 13/ 6/67... | 1                              | ...                              | —                                     | ...                 |
| 13/ 6/67... | 1                              | ...                              | —                                     | ...                 |
| 21/ 6/67... | 1                              | ...                              | —                                     | ...                 |
| 21/ 6/67... | 1                              | ...                              | —                                     | ...                 |
| 9/ 5/67...  | 1                              | ...                              | —                                     | ...                 |
| 23/ 5/67... | —                              | ...                              | 1                                     | ...                 |
| 6/ 7/67...  | 1                              | ...                              | —                                     | ...                 |
| 6/ 7/67...  | 1                              | ...                              | —                                     | ...                 |
| 11/ 7/67... | 1                              | ...                              | —                                     | ...                 |
| 11/ 7/67... | 1                              | ...                              | —                                     | ...                 |
| 18/ 7/67... | —                              | ...                              | 1                                     | ...                 |
| 8/ 8/67...  | 1                              | ...                              | —                                     | ...                 |
| 8/ 8/67...  | 1                              | ...                              | —                                     | ...                 |
| 8/ 8/67...  | 1                              | ...                              | —                                     | ...                 |
| 8/ 8/67...  | 1                              | ...                              | —                                     | ...                 |
| 16/ 8/67... | 1                              | ...                              | —                                     | ...                 |
| 16/ 8/67... | 1                              | ...                              | —                                     | ...                 |
| 22/ 8/67... | 1                              | ...                              | —                                     | ...                 |
| 6/ 9/67...  | 1                              | ...                              | —                                     | ...                 |
| 6/ 9/67...  | 1                              | ...                              | —                                     | ...                 |
| 19/ 9/67... | —                              | ...                              | —                                     | 1                   |
| 19/ 9/67... | —                              | ...                              | 1                                     | ...                 |
| 19/ 9/67... | —                              | ...                              | 1                                     | ...                 |
| 10/10/67... | 1                              | ...                              | —                                     | ...                 |
| 10/10/67... | 1                              | ...                              | —                                     | ...                 |
| 16/10/67... | 1                              | ...                              | —                                     | ...                 |
| 16/10/67... | 1                              | ...                              | —                                     | ...                 |
| 16/10/67... | 1                              | ...                              | —                                     | ...                 |
| 16/10/67... | —                              | ...                              | 1                                     | ...                 |
| 23/10/67... | 1                              | ...                              | —                                     | ...                 |
| 8/11/67...  | 1                              | ...                              | —                                     | ...                 |
| 8/11/67...  | 1                              | ...                              | —                                     | ...                 |
| 8/11/67...  | —                              | ...                              | 1                                     | ...                 |
| 8/11/67...  | 1                              | ...                              | —                                     | ...                 |
| 14/11/67... | 1                              | ...                              | —                                     | ...                 |
| 14/11/67... | —                              | ...                              | 1                                     | ...                 |
| 22/11/67... | 1                              | ...                              | —                                     | ...                 |
| 22/11/67... | —                              | ...                              | 1                                     | ...                 |
| 22/11/67... | 1                              | ...                              | —                                     | ...                 |
| 22/11/67... | 1                              | ...                              | —                                     | ...                 |
| 22/11/67... | 1                              | ...                              | —                                     | ...                 |
| 28/11/67... | —                              | ...                              | 1                                     | ...                 |
| 5/12/67...  | —                              | ...                              | 1                                     | ...                 |
| 5/12/67...  | —                              | ...                              | 1                                     | ...                 |
| 19/12/67... | 1                              | ...                              | —                                     | ...                 |
| 19/12/67... | 1                              | ...                              | —                                     | ...                 |
| 19/12/67... | 1                              | ...                              | —                                     | ...                 |

Where unsatisfactory results are obtained, reports are sent to the County Public Health Officer and in the case of Methylene Blue failures to the Milk Husbandry Officer, Ministry of Agriculture, Fisheries and Food.

## ICE CREAM.

Twelve samples of Ice Cream were taken for Bacteriological examination and were found to be satisfactory. There are no Ice Cream manufacturers in the district.

## SEWAGE DISPOSAL.

The following is a brief summary of work required to the sewage disposal plant throughout the district:—

### (1) Parish of Trefnant.

Ministry consent is being sought for the abandonment of the two existing works together with a small unit at Tanglewood. Further comment on the condition of these works is unnecessary.

A small degree of maintenance in the way of new filter arms and provision of a sludge lagoon will, however, be necessary in the old works. It is hoped, however, to improvise as much as possible to avoid any expense on these redundant works.

### (2) Betws-yn-Rhos.

A considerable amount of infiltration water gains access to the works, and in order to assess more precisely the present condition a flow recorder has been installed. It will be necessary for results to be obtained during varying weather conditions.

The chief difficulty is the inadequacy of a means of sludge drying. The existing sludge drying beds have been cleaned out and under-draining tiles have been laid. The drying beds are, however, sited in a very screened position and in one that is very wet, and drying of sludge becomes impossible. New sludge drying beds are required on a higher level, which will entail pumping from the existing settling tanks in lieu of the existing gravity system.

Access to the works is very unsatisfactory and a new entrance road will have to be constructed. Further building in the village will be held up until these works are put in order.

### (3) Llanfairtalhaiarn Village.

It has been found that the filters and humus tanks are under water for considerable periods in each year. This ren-



ders the works completely inoperative and a detailed investigation, probably in conjunction with the Rivers Authority, is necessary. A large section of the outfall pipe and inspection chambers have been destroyed through erosion.

It is possible that the works will have to be re-designed and re-built at a higher level. This would entail pumping, but as an electricity supply is available there is no practical reason why this should not be done. Sludge drying facilities are non-existent.

**(4) Llanefydd Village.**

Minor works only are necessary at these works, which are in a reasonable condition. Extension of the drying beds is desirable.

**(5) Llansannan Village.**

Sludge drying facilities are again much below modern requirements, and a system of pumping to obviate the necessity of taking a pump to the works at intervals is required.

The Council is aware of the need for improved access, and it is recommended that part of the Rectory field be purchased for the formation of a permanent road.

Some work has been carried out at the works recently but much remains to be done.

**(6) Pentrefelin—Glan Conway.**

These works will be redundant when the Glan Conway sewage scheme is completed.

**(7) Mairwen Estate, Cefn.**

This is a septic tank and filter. The effluent discharges into a pond where it stagnates. It is difficult to know what can be done to improve this system of disposal. The filter is below ground level and in this position is ineffective.

A full investigation is required here in connection with the possibility of re-building the works in an improved position and in an attempt to provide an effluent which can be dealt with satisfactorily.

**(8) Rhewl Estate (Cefn View).**

This is a small septic tank and filter serving two houses only. Here, again, the effluent discharges into a pond, and frequent attention is necessary.

**(9) Glascoed Road Estate, Glascoed.**

The effluent from this tank discharges into a roadside ditch where it becomes foul. Here, again, the siting of the tank renders improvement difficult and a re-designed tank would appear to be the only satisfactory solution, together with the acquisition of sufficient land to deal with the effluent.

**(10) Marli Estate, Glascoed.**

This is a septic tank and filter unit which is too small for the existing population and quite inadequate for any future development. The whole works requires re-building and enlarging.

**(11) Bylchau Crossroads.**

These works are too small for the population they serve and require re-building.

**(12) Groes—Bronallt.**

These works are too small for coping with the additional building envisaged and will require re-building. The site is adequate for the purpose.

**(13) Dolwyd and Graig, Glan Conway.**

Both these small works will be incorporated in the new Glan Conway sewage scheme.

**(14) Cefn Berain, Llanefydd.**

These works are also inadequate in size and will have to be enlarged.

In addition to the above list of works there are small plants at Moelfre serving the Bryn Ewin houses, Tan-y-Fron, Groes, Brynrhydyarian and Llanelian. All these works require a varying degree of attention.

The Welsh Office has now indicated that a programme should be formulated for bringing these works up to a proper standard, and it has been suggested that a thorough survey be undertaken and a schedule of works prepared, together with an estimate of the cost likely to be incurred in attaining this standard.

There is a degree of urgency in connection with the provision of works at Cefn (Marli) and Betws-yn-Rhos, as further housing development will be impeded until such time as these works are put in order.

Experience over the past two years has shown that with the works in their present condition the task of the sewage works maintenance staff has been most difficult and, indeed, a lot of the work they do is rendered abortive through the inadequacy of the various plant they have to maintain. Most of the improvements required will entail the provision of a fresh water supply to the site together with electricity. It is felt that piecemeal improvements, whilst enabling sewage disposal to be carried on without apparent difficulty, is not a satisfactory solution, nor is this satisfactory to the Welsh Office, as has been indicated following recent inspections.

**General.**

The Council continues to give the disposal of sewage throughout the district close attention and considerable improvement is anticipated in the future.

Easy access in all weather conditions, pumping facilities on each of the larger works which require regular de-sludging and adequate sludge drying facilities are the basic essentials to be arrived at.

The provision of a fresh water supply at the larger works is also necessary. At present only one works has such a supply.

## SEWAGE ANALYSES.

|  | Ex Treinant<br>Main | Ex Cae Shon<br>Works, Trefnant | Ex Llannefydd<br>Works    |
|--|---------------------|--------------------------------|---------------------------|
| <b>Analysis.</b>   |                     |                                |                           |
| Appearance ... ..  | Turbid. gr. br.     | Turbid. gr. br.                | Grey/yellow<br>sl. turbid |
| Odour ... ..   | Faint earthy        | Very ft. earthy                | Slight sewage             |
| Reaction pH ... ..   | 7.6                 | 7.9                            | 7.1                       |
| Parts per million—   |                     |                                |                           |
| Total solids ... ..  | —                   | —                              | —                         |
| Suspended solids, total ... ..                               | 75                  | 68                             | 26                        |
| Suspended solids, mineral ... ..                             | —                   | —                              | —                         |
| Nitrogen as free and saline ammonia ... ..                   | 7.1                 | 7.0                            | 4.6                       |
| Nitrogen as albuminoid ammonia ... ..                        | —                   | —                              | —                         |
| Nitrogen as Nitrites ... ..                                  | 0.45                | 0.42                           | 0.54                      |
| Nitrogen as Nitrates ... ..                                  | —                   | —                              | —                         |
| Chlorides as Cl. ... ..                                      | 86                  | 65                             | 58                        |
| Oxygen absorbed from permanganate in 4 hours at 27°C. ... .. | 16.4                | 13.1                           | 13.2                      |
| Biochemical Oxygen demand in 5 days at 20°C. ... ..          | 24                  | 33                             | 31                        |
| Alkalinity ... ..  | —                   | —                              | —                         |
| Free Chlorine ... ..   | —                   | —                              | —                         |
| Anionic Synthetic Detergents ... ..                          | —                   | —                              | —                         |
| Methylene Blue Test ... ..                                   | —                   | —                              | —                         |
| Potassium as K. ... ..                                       | —                   | —                              | —                         |
| Cyanides and thiocyanates ... ..                             | —                   | —                              | —                         |
| Total Oxidised Nitrogen ... ..                               | 24.1                | 15.8                           | 21.1                      |

|  | Ex Llansamman<br>Works    | Groes Sewage<br>Works                    | Ex Llansamman<br>Works                 |
|--|---------------------------|--|--|
| <b>Analysis.</b>   |                           |  |  |
| Appearance ... ..  | Grey/yellow<br>sl. turpid | Sl. yellow brown<br>sl. turpid, sl. dpt. | Sl. ylw/br, v. sl.<br>turpid, sl. dpt. |
| Odour ... ..   | Slight earthy             | Very sl. earthy                          | Very sl. earthy                        |
| Reaction pH ... ..   | 7.1                       | 6.9                                      | 6.85                                   |
| Parts per million—   |                           |  |  |
| Total solids ... ..  | —                         | 289                                      | 183                                    |
| Suspended solids, total ... ..                               | 18                        | 26                                       | 15                                     |
| Suspended solids, mineral ... ..                             | —                         | 7  | 0                                      |
| Nitrogen as free and saline ammonia ... ..                   | 13.5                      | 0.3                                      | 0.2                                    |
| Nitrogen as albuminoid ammonia ... ..                        | —                         | 0.25                                     | 0.375                                  |
| Nitrogen as Nitrites ... ..                                  | 0.40                      | moderate                                 | trace                                  |
| Nitrogen as Nitrates ... ..                                  | —                         | 4.75                                     | 5.6                                    |
| Chlorides as Cl. ... ..                                      | 66                        | 15                                       | 30                                     |
| Oxygen absorbed from permanganate in 4 hours at 27°C. ... .. | 18.1                      | 3.2                                      | 5.7                                    |
| Biochemical Oxygen demand in 5 days at 20°C. ... ..          | 50                        | 1.6                                      | 2.4                                    |
| Alkalinity ... ..  | —                         | 64                                       | 10                                     |
| Free Chlorine ... ..   | —                         | —  | —                                      |
| Anionic Synthetic Detergents ... ..                          | —                         | —  | —                                      |
| Methylene Blue Test ... ..                                   | —                         | Stable 5 days                            | Stable 5 days                          |
| Potassium as K. ... ..                                       | —                         | —  | —                                      |
| Cyanides and thiocyanates ... ..                             | —                         | Nil                                      | Nil                                    |
| Total Oxidised Nitrogen ... ..                               | 13.7                      | —  | —                                      |

## OPINION.

|                               |  |
|-------------------------------|--|
| <b>Trefnant</b> ... ..        | Borderline quality. Suspended Solids high.   |
| <b>Cae Shon, Trefnant</b> ... | U/S B.O.D. and Suspended Solids high.  |
| <b>Llanefydd</b> ... ..       | Borderline quality.  |
| <b>Llansannan</b> ... ..      | Unsatisfactory.  |
| <b>Groes Sewage Works</b>     | Effluent contains much surface water. Its present condition is satisfactory.                               |
| <b>Llansannan</b> ... ..      | Effluent contains much surface water and is derived from very weak sewage. Present condition satisfactory. |

**OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963.**  
**TABLE A—REGISTRATIONS AND GENERAL INSPECTIONS**

| Class of Premises.<br>(1)                                  | No. of premises<br>registered to<br>date.<br>(2) | No. of registered<br>premises receiving<br>a general inspection<br>during the<br>year<br>(3) |
|--|--|--|
| Offices ... ..   | 13   | 3  |
| Retail Shops ... ..  | 23   | 14   |
| Wholesale Shops, Warehouses ... ..                         | 4  | —  |
| Catering Establishments open to Public,<br>Canteens ... .. | 17   | 4  |
| Fuel Storage Depots ... ..                                 | 7  | 2  |

## TABLE B.

|  |    |
|--|----|
| Number of Visits of all kinds (including General inspections) to<br>Registered premises ... .. | 83 |
|--|----|

**TABLE C—ANALYSIS BY WORKPLACE OF PERSONS  
EMPLOYED IN REGISTERED PREMISES AT END OF YEAR**

| Class of Workplace.                               | No. of persons<br>employed |
|---|----------------------------|
| Offices ... ..                                    | 18                         |
| Retail Shops ... ..                               | 24                         |
| Wholesale Department Warehouses ... ..            | 27                         |
| Catering Establishments open to the Public ... .. | 21                         |
| Canteens ... ..                                   | —                          |
| Fuel Storage Depots... ..                         | 6                          |
| Total ... ..                                      | 96                         |

Total Males: 38. Total Female: 58.

## REFUSE COLLECTION AND DISPOSAL.

The problem of finding adequate tipping sites remains. Mechanical excavation has enabled tipping to continue on existing sites, but the establishment of a new tip cannot be long deferred.

Ideally a system of disposal by modern methods in lieu of controlled tipping would be the solution. This would be too expensive for a district of this size, but a scheme jointly operated by a number of authorities would be practicable and possibly less costly in the long run. The present system although designated "controlled tipping," is not far removed from crude dumping and cannot be accepted as a hygienic way of disposing of household waste.

The Council has approved the Paper Sack system of collection and will go over entirely to this system over the next three years. There is little doubt that paper sacks are an improvement on the old dustbin. Not one complaint has yet been received from those parts of the district where paper sacks have been supplied.

### REFUSE COLLECTION.

|  |        |
|--|--------|
| No. of bins collected, including Caravan sites and Lay-by bins | 2,500  |
| No. of miles travelled in year                                 | 20,000 |
| Average No. of miles travelled per day per vehicle             | 40     |
| No. of vehicles  | ?      |
| TOTAL Cost of service  | £7,091 |
| Cost per collection per annum                                  | £2.85  |
| Cost per mile travelled  | £0.36  |

Due to the constant attention given to the Refuse tips in the area, the control of rats and mice has been effective; however, difficulties were encountered during the summer months with flies, and an intensive programme of spraying with a proprietary insecticide was resorted to.

### COMPLAINTS.

Close on a thousand complaints were investigated by the department during the course of the year and it was not necessary to serve statutory notices in relation to any of these complaints.

The majority of these complaints referred to Council houses and were dealt with immediately. The remainder included housing complaints in private property, rodent infestation, refuse accumulations, and food supply. These were all satisfactorily dealt with.



**CARAVANS.**

| Parish.                  | 1966         |                 | 1967         |                 |
|--------------------------|--------------|-----------------|--------------|-----------------|
|                          | No. of Sites | No. of Caravans | No. of Sites | No. of Caravans |
| Abergele Rural... ..     | 7            | 159             | 7            | 189             |
| Betws-yn-Rhos... ..      | 1            | 153             | 1            | 153             |
| Bylchau ... ..           | 1            | 30              | 1            | 30              |
| Cefnmeiriadog ... ..     | 1            | 304             | 1            | 304             |
| Glan Conway ... ..       | 4            | 61              | 4            | 61              |
| Llanefydd ... ..         | 2            | 57              | 2            | 57              |
| Llansannan ... ..        | —            | —               | —            | —               |
| Llanfairtalhaiarn ... .. | 7            | 29              | 7            | 29              |
| Llanelian... ..          | 1            | 1               | 1            | 1               |
| Trefnant ... ..          | —            | —               | —            | —               |
|                          | 24           | 794             | 24           | 824             |

**CARAVANS**

No problems arose from caravans during the year. An undesirable feature of the growing popularity of caravanning was the use of lay-bys for overnight parking. There is an evident need for accommodation for touring caravans which is not met by the licensed sites. These sites are generally occupied permanently throughout the summer months, and cannot cater for the touring caravan.

Disposal of drainage is likely to present a problem where sites are enlarged and a revision of site conditions in this connection may be necessary.

**SLAUGHTERHOUSES.**

Neither of the two slaughterhouses in the area was in use during the year.

**KNACKER'S YARD**

A licensed Knacker's Yard continues in use and inspections are carried out monthly. Periodic floor and drain swabs are taken for bacteriological analysis.

The presence of certain types of organisms indicates that continued vigilance is necessary.

Inspections are carried out jointly with the veterinary officers of the Ministry of Agriculture, Fisheries and Food.

**RODENT DESTRUCTION.**

|   |       |
|---|-------|
| Total number of properties in the District, including Local Authority Buildings ... ..    | 2,713 |
| Number of farms inspected during the year ... ..  | 87    |
| Number of business premises inspected during the year ... ..                              | 78    |
| Number of private dwellings inspected ... ..  | 150   |
| Total of all other types of inspections, including Local Authority tips and sewers ... .. | 173   |



Rodent control in Glan Conway village proved more difficult than usual. This can be attributed to the fact that Phase One of the new Sewerage Scheme involved disturbing the existing sewer routes and this inevitably drove the rodents out of their existing runs to seek shelter elsewhere. Complaints were dealt with immediately and with the co-operation of all concerned these "lightening" infestations were satisfactorily dealt with.

## HOUSING.

### HOUSING CONDITIONS GENERALLY.

#### HOUSING IN CLEARANCE AREAS AND UNFIT HOUSES ELSEWHERE.

##### 1.—Inspection of Dwelling Houses during the year:

- (i) Houses demolished as a result of formal or informal procedure under Sec. 16 Housing Act, 1957 ... Nil
- (ii) Housing inspections ... 193

##### 2.—Unfit Houses closed:

- (i) Under Sec. 16 (4) Housing Act, 1957 ... 2

##### 3.—Unfit Houses made fit and Houses in which defects remedied:

- (i) After informal action by the Local Authority ... 8
- (ii) After formal action
  - (a) Public Health Act ... Nil
  - (b) Housing Act ... Nil

##### 4.—Unfit Houses in temporary use:

- (i) Housing Act, 1957 Sec. 34 or 53 ... 8
- (ii) Section 17 (2) ... Nil

## IMPROVEMENT GRANTS.

The following table shows that applications for Improvement Grants continue in much the same scale as hitherto:—

#### Discretionary Grants:

|  |         |
|--|---------|
| Application considered from 7/3/50—31/12/66 ...                  | 377     |
| Applications not proceeded with relative the above period ...    | 59      |
|  | <hr/>   |
| Number of grant-aided schemes for above period ...               | 318     |
| Applications considered and approved during 1967 ...             | 19      |
|  | <hr/>   |
|  | 337     |
| Value of grant-aid in respect of total number of schemes ...     | £90,883 |
| Value of current year's schemes ...                              | £6,709  |
| Average amount per grant-aided scheme ...                        | £270    |
| Number of visits in connection with Discretionary applications   | 218     |
| Number of meetings of Grant Committee (Housing Sub-Committee ... | 9       |

#### Standard Grants:

|   |        |
|---|--------|
| Number of schemes approved to 31/12/66 ...      | 43     |
| Applications considered during current year ... | 8      |
|   | <hr/>  |
| Total number of schemes approved ...            | 51     |
| Value of completed schemes to 31/12/67 ...      | £5,619 |
| Value of incompletd work as at 31/12/67 ...     | £1,200 |

# INSPECTION OF FACTORIES.

| Premises<br>(1)   | M/c<br>line<br>No.<br>(2) | Number on<br>Register<br>(3) | Number of<br>Inspections<br>(4) | Number of<br>Written Notices<br>(5) | Number of<br>Occupiers<br>prosecuted<br>(6) | M/c<br>line<br>No.<br>(7) |
|---|---------------------------|------------------------------|---------------------------------|-------------------------------------|---|---------------------------|
| (i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities                          | 1                         | 2                            | —                               | —                                   | —   | 1                         |
| (ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority                          | 2                         | 20                           | 20                              | —                                   | —   | 2                         |
| (iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding out-workers' premises) .... | 3                         | 1                            | 3                               | —                                   | —   | 3                         |
| Total... ..   | 6                         | 23                           | 23                              | —                                   | —   | 6                         |

## CASES IN WHICH DEFECTS WERE FOUND.

| Particulars<br>(1)   | M/c<br>line<br>No.<br>(2) | Cases<br>Found<br>(3) | Cases<br>Remedied<br>(4) | Referred<br>To H.M.<br>Inspector<br>(5) | Referred<br>By H.M.<br>Inspector<br>(6) | No. of cases in<br>which prosecu-<br>tions were<br>instituted<br>(7) | M/c<br>line<br>No.<br>(8) |
|--|---------------------------|-----------------------|--------------------------|---|---|--|---------------------------|
| Want of Cleanliness (S.1) ... ..   | 4                         | —                     | —                        | —                                       | —                                       | —  | 4                         |
| Overcrowding (S.2) ... ..  | 5                         | —                     | —                        | —                                       | —                                       | —  | 5                         |
| Unreasonable temperature (S.3) ... ..  | 6                         | —                     | —                        | —                                       | —                                       | —  | 6                         |
| Inadequate ventilation (S.4) ... ..  | 7                         | —                     | —                        | —                                       | —                                       | —  | 7                         |
| Ineffective drainage of floors (S.6) ... ..  | 8                         | —                     | —                        | —                                       | —                                       | —  | 8                         |
| Sanitary Conveniences (S.7) :  |                           |                       |                          |   |   |  |                           |
| (a) Insufficient ... ..  | 9                         | —                     | —                        | —                                       | —                                       | —  | 9                         |
| (b) Unsuitable or defective ... ..   | 10                        | —                     | —                        | —                                       | —                                       | —  | 10                        |
| (c) Not separate for sexes ... ..  | 11                        | —                     | —                        | —                                       | —                                       | —  | 11                        |
| Other offences against the Act (not including offences relating to Outwork) ... .. | 12                        | —                     | —                        | —                                       | —                                       | —  | 12                        |
| Total... ..  | 72                        | —                     | —                        | —                                       | —                                       | —  | —                         |



